	REVISION:	10					۳	NCINE	ENGINEERING DATA	LIST	**	* HISTORY *	
DATE:	15FEB01	112	SKW		RGN S	ORGN SYMBOL:		LGMPM	PR NR:		APPLICATION: F-15	PAGE 1 OF 1	·
CAGE: 76301	MANUFACTURER NAME: MCDONNELL DOUGLAS		ST LOUIS MO	JIS MC	0		REF 68A	REFERENCE NR: 68A412754-2003	22	NOUN: SPRING,HE	NOUN: SPRING,HELICAL,TORS	NSN: 5360012507458LE	T
CAGE	DRAWING NUMBER	NUMBER	22	EV SH	NR 1	REV SHEETS CARDS CODE CODE	N DIE	E SE	NOON		REQUIREMENTS		1
76301 68A412754	1412754 WITH P/L	P/L	-	l°	0000	S 0000	 	SPRING,	TORSION-DOWNLOCK, MLG	OBTAIN DATA FROM WR-ALC JEDMICS	R-ALC JEDMICS		1
76301 PS 15063	15063		-	+	0000	S 0000	-	PROCESS SPEC	SPEC	OBTAIN DATA FROM WR-ALC JEDMICS	R-ALC JEDMICS		T
76301 PS 23041	23041			<u> </u>	0000	s 0000	<u> </u>	PROCESS SPEC	SPEC	OBTAIN DATA FROM WR-ALC JEDMICS	R-ALC JEDMICS		Т
98747 00A	98747 COALC/LGMPM		-	l°	0000	S 0000	_	ENGR DAT	engr data romis (attachment "a")				T
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STANDA	STANDARD ENGINEERING TEXT	UNG TEXT											· · · · · · · · · · · · · · · · · · ·
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ENGINE	ERING DATA	ENGINEERING DATA LIST REMARKS							FURNISHED METHOD CODE LEGEND: C - CLASSIFIED DOCUMENT. S - FURNISHED WITH SOLICITATION. M - STABLE BASE DRAWING REQUIRED;	DE LEGEND: X MENT. R SOLICITATION. P	- DATA SUPPLIED (NOT IN EDCARS) FURNISHED BY PCD UPON REQUEST PARTIAL DOCUMENT FURNISHED VENDOR DRAWING;	G - GOV'T DOCUMENT. O - OTHERS, CONTRACTOR MUST ACQUIRE. A - DATA NOT	TOR
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REV:	ENGINE	ERING DATA REQUIREMENTS (ATTACHMENT "A")	
	ONS I/STANDARDS WILL NOT BE FURNISHED IN T		
	IONS ARE FURNISHED FOR THE MANUFACTURE	OF .	
Spring, Torsion - Downlo	CK, MLG	r	A CONTRACTOR OF THE PROPERTY O
2. PART NUMBER		3. NATIONAL STOCK NUMBER	
68A412754-2003		5360 01 250 7458LE	
4. THE FOLLOWING SPECIFICA FURNISHED UNLESS SO INDICA	TIONS/STANDARDS, ETC., WILL BE USED IN LIEU ATED.	OF THE DATA INDICATED. THE SUPERSEDI	ED DATA WILL NOT BE
5. Grind per MIL-STD-8	66 may be used as an alternate to PS2071	0.	
6. Shot Peen per SAE AM	AS-S-13165 may be used as an alternate to	to PS14023.	
following acceptance/reje inspection is conducted at	enetrant Inspection per ASTM E 1417, Tection criteria: NO DEFECTS ALLOWE the required sensitivity level and there sed to Level II with the inspection procedu	D. The intent of NO DEFECTS AL hall be no indications allowed. The	LOWED is that the inspector performing the
8. Heat Treat per SAE A	MS-H-6875 may be used as an alternate	to PS15238.	
polyamide primer per MI	waterborne primer per MIL-PRF-85582 L-PRF-23377 Type I. Apply two topcoa 5, in lieu of MIL-C-83286, which has be	ats polyurethane per MIL-PRF-85285	Alternate one coat of epoxy 5 Type I, color 17925
10. Marking & Identifica	tion per MIL-STD-130 may be used as a	n alternate to PS16001.	
11. Passivate per SAE A	MS-QQ-P-35 may be used as an alternate	e to PS13001.	
12. Interpret Drawing pe	r DOD-STD-100 may be used as an alter	rnate to 40M114.	
13. OO-ALC/LILE Syste shipment of discrepant it disposition.	em Engineering retains all rights to revie em. All deviations, minor and major, from	w and accept Material Review Board om the engineering drawing package	(MRB) dispositions prior to shall be submitted for MRB
and standards called out responsible to completely	ard, the contractor shall certify to the Gorand required for the manufacture of this y search these manuals, specifications, ar components. Any questions can be for	contracted landing gear component/and standards and fully understand the	ssembly. Contractor is
15. After contract award process specifications) to	, the successful bidder shall provide a co LILE for final review before production	ppy of the processing documentation on begins.	(routing documents and
PREPARED BY		SYMBOL	DATE
Kathee Wiberg		LGMPM	16 Feb 01
OO-ALC FORM 462	OCT 96 (EF-V1)(PerFORM PRO)	PREVIOUS EDITIONS ARE OBSOLETE	PAGE OF

SOURCE QUALIFICATION REQUIREMENTS

(PL 98-525, SECTION 2319)

STOCK NR (NSN)5360-01-250-7458LE NOUN: Spring, Helical

PART NUMBER (P/N)68A412754-2003 AIRCRAFT: F-15E

SECTION C.

QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE

- 1. Because of the need for uninterrupted item support to military aircraft systems and in keeping with the requirements of PL 98-525, the current acquisition need not and generally will not be delayed to provide an offerer an opportunity to qualify. Normal acquisition practices at OO-ALC should preclude the denial of opportunity to any interested offerer.
- 2. The offerer must provide a pre-contract award qualification article, which meets the requirements of the engineering drawings, material specifications, and process specifications, as well as the testing described by section D of this document. However, successful completion of the qualification testing does not guarantee any contract award. If the offerer is deemed qualified and awarded the contract, a post-contract award first article exhibit may be required to verify production capability.
- 3. The required materials will be procured from a qualified source and will meet the requirements of their respective specifications. The offerer will assure that the material supplier has accomplished this and will submit certified documentation of accomplishment of the above requirements to the purchaser along with the pre-contract award qualification article.
- 4. If forgings and/or castings are required by the applicable engineering data, they will be obtained from the original certified source/sources using the original certified forging/casting procedures and dies. Forging lot qualification will be accomplished as required by the applicable forging drawings. The offerer will assure that this has been accomplished by the forging source and will submit such to the government along with the pre-contract award qualification article.
- 5. The qualification article shall demonstrate full compatibility and comparability with existing parts, and once submitted, will be subjected to such testing as deemed necessary by the government, to insure the article meets all dimensional, processing, and functional requirements. Such testing may result in the destruction of the article. Following completion of necessary testing and evaluation, the article, no matter what its condition, shall be returned to the contractor or disposed of at his discretion and direction, whether it was found acceptable or not.
- 6. Form verification: The Government's Quality Verification Center will verify compliance with dimensional data requirements. Material and process compliance will also be verified as required.
- Fit/function verification: Existing components and Government test stands/fixtures will be utilized to verify physical interface and functional performance of articles.
- 8. Testing for material and process compliance

(a) Material analysis

(e) Plating(f) Finish

(b) Heat treat

(c) Grinding

(g) Other

(PL 98-525, SECTION 2319)

STOCK NR (NSN)5360-01-250-7458LE NOUN: Spring, Helical PART NUMBER (P/N)68A412754-2003 AIRCRAFT:F-15E

9. Remarks:

- a. Organic verification capabilities exist at OO-ALC.
- b. Test requirements outside organic capabilities will be contracted out to independent laboratories.
- 10. The estimated cost of government testing and evaluation is 5000
- 11. Maximum time for testing of the qualification article will not exceed 120 days from receipt at testing agency.

SOURCE QUALIFICATION REQUIREMENTS

(PL 98-525, SECTION 2319)

STOCK NR (NSN)5360-01-250-7458LE NOUN: Spring, Helical PART NUMBER (P/N)68A412754-2003 AIRCRAFT:F-15E

SECTION D.

QUALIFICATION TEST REQUIREMENTS MUST BE SATIFIED FOR PROSPECTIVE BIDDER TO BECOME A QUALIFIED SOURCE.

- 1. Testing to be performed by prospective source on two each springs is as follows: Applicable -1001 springs will be cycled from the installed 2.03 inch displacement to a 4.07 inch displacement, for a minimum of 20,000 cycles in accordance with the following schedule.
 - a. Insert and record springs dimensional criteria in free state including displacement angle of ends
 - b. Cycle springs per note 15 for 1,000 cycles. Put springs at the installed position pre-load displacements and hole for 24 hrs. Following this sequence, measure each spring. Free displacement angle as well as installed position torque and max. working piston torque. Record all data and relate to applicable spring serial number.
 - c. Repeat (b) above until applicable springs have accumulated 5,000 cycles.
 - d. Cycle springs per drawing note 16 for 5,000 cycles. Put springs at installed position pre-load for 245 hrs. Following this sequence measure free spring displacement angle as well as installed position torque and max. working position torque. Record all data and relate applicable spring serial number.
 - e. Continue sequence established by paragraph (d) to failure or an accumulation of 20,000 cycles.
 - f. Inspect springs for cracks per MIL-STD-1949. Use direct current; wet continuous method, fluorescent type. The inspection individual will be certified to at least level II, per MIL-STD-410.
 - g. Submit data accumulated during above testing together with supporting data showing test and measurements equipment to the government's cognizant engineering activity along with the applicable pre-qualification item.

PACKAGING KEUUIKEMENIS	
PR, MIPR, OR DOCUMENT NUMBER FD 2020 - 03-2522	3. INSTRUCTIONS TO CONTRACTING OFFICER: Insert appropriate clause(s) into Section D for applicable item(s) as indicated below.
eted and fur STO-2073-1 cument if sp prirements.	A PAMCFARS 5352.247-9005, SHIPPING CONTAINER MARKING. ITEM MAME(s)OR NSN/MMAC A PAMCFARS 5352.247-9005, SHIPPING CONTAINER MARKING. ITEM
COMMERCIAL SPECIAL PACKAGING QUP MIL-STD-2073-1 ATSM D3951 CBP INSTRUCTION ITEM ID PRES PACK NUMBER (#) (X) (X) (X)	AFMCFARS 5352.247-9006, MARKING OF WARRANTED ITEMS. ITEM NAME(s) OR NSN/MMAC AFMCFARS 5352.247-9007, SPECIFICATION COMMERCIAL PACKAGING (ASTM D3951). ITEM NAME(s) OR NSN/MMAC
6001 X B	AFMCFARS 5352.247-9008, CONTRACTOR COMMERCIAL PACKAGING (Commercial Best Practice). ITEM NAME(s) OR NSN/MMAC
	AFMCFARS 5352.247-9009, MILITARY PACKAGING AND MARKING. ITEM NAME(s) OR NSN/MMAC AFMCFARS 5352.247-9010, ENGINEERED OR SPECIALIZED CONTAINERS (CDRS). ITEM NAME(s) OR NSN/MMAC
 ADDITIONAL PACKAGING AND CONTAINER MARKING REQUIREMENTS (Specify all revisions and dates of required specifications, standards, and date item descriptions (DIDS)) 	AFMCFARS 5352.247-9011, PACKAGING AND MARKING OF HAZARDOUS MATERIAL. ITEM NAME(s) OR NSN/MMAC
	AFMCFARS 5352.247-9012, PACKAGING FOR INSPECTION AND ACCEPTANCE AT DESTINATION. ITEM NAME(s) OR NSN/MMAC
	AFMCFARS 5352.247-9013, PACKAGING DATA (Coded and/or Special Packaging Instructions). ITEM NAME(s) OR NSN/MMAC
4 CODED DATA: Coded requirements shall be interpreted in accordance with MIL-STD-2073-1.	
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